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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/384,876	03/07/2003	Thomas Converse	129419-1	2690

7590

07/23/2004

Robert E. Walter
GE Plastics
One Plastics Avenue
Pittsfield, MA 01201

EXAMINER

GUTMAN, HILARY L

ART UNIT PAPER NUMBER

3612

DATE MAILED: 07/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

m

Notice of Abandonment	Application No.	Applicant(s)	
	10/384,876	CONVERSE ET AL.	
	Examiner	Art Unit	
	Hilary Gutman	3612	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

This application is abandoned in view of:

1. ☐ Applicant's failure to timely file a proper reply to the Office letter mailed on _____.
 - (a) ☐ A reply was received on _____ (with a Certificate of Mailing or Transmission dated _____), which is after the expiration of the period for reply (including a total extension of time of _____ month(s)) which expired on _____.
 - (b) ☐ A proposed reply was received on _____, but it does not constitute a proper reply under 37 CFR 1.113 (a) to the final rejection. (A proper reply under 37 CFR 1.113 to a final rejection consists only of: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114).
 - (c) ☐ A reply was received on _____ but it does not constitute a proper reply, or a bona fide attempt at a proper reply, to the non-final rejection. See 37 CFR 1.85(a) and 1.111. (See explanation in box 7 below).
 - (d) ☐ No reply has been received.
2. ☐ Applicant's failure to timely pay the required issue fee and publication fee, if applicable, within the statutory period of three months from the mailing date of the Notice of Allowance (PTOL-85).
 - (a) ☐ The issue fee and publication fee, if applicable, was received on _____ (with a Certificate of Mailing or Transmission dated _____), which is after the expiration of the statutory period for payment of the issue fee (and publication fee) set in the Notice of Allowance (PTOL-85).
 - (b) ☐ The submitted fee of \$_____ is insufficient. A balance of \$_____ is due.
The issue fee required by 37 CFR 1.18 is \$_____. The publication fee, if required by 37 CFR 1.18(d), is \$_____.
 - (c) ☐ The issue fee and publication fee, if applicable, has not been received.
3. ☐ Applicant's failure to timely file corrected drawings as required by, and within the three-month period set in, the Notice of Allowability (PTO-37).
 - (a) ☐ Proposed corrected drawings were received on _____ (with a Certificate of Mailing or Transmission dated _____), which is after the expiration of the period for reply.
 - (b) ☐ No corrected drawings have been received.
4. ☒ The letter of express abandonment which is signed by the attorney or agent of record, the assignee of the entire interest, or all of the applicants.
5. ☐ The letter of express abandonment which is signed by an attorney or agent (acting in a representative capacity under 37 CFR 1.34(a)) upon the filing of a continuing application.
6. ☐ The decision by the Board of Patent Appeals and Interference rendered on _____ and because the period for seeking court review of the decision has expired and there are no allowed claims.
7. ☐ The reason(s) below:

Hilary Gutman
Hilary Gutman
3612
7/19/07

Petitions to revive under 37 CFR 1.137(a) or (b), or requests to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to minimize any negative effects on patent term.

Refine Search

Search Results -

Terms	Documents
enteric\$ same (cystine or glutathione)	22

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

L5

Search History

DATE: Thursday, July 22, 2004 [Printable Copy](#) [Create Case](#)

Set Name **Query**
side by side

Hit Count **Set Name**
result set

DB=USPT,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

<u>L5</u>	enteric\$ same (cystine or glutathione)	22	<u>L5</u>
<u>L4</u>	L2 and (chitosan or methacryl\$)	12	<u>L4</u>
<u>L3</u>	L2 and chitosan or methacryl\$	219500	<u>L3</u>
<u>L2</u>	L1 and tablet	102	<u>L2</u>
<u>L1</u>	colon\$ same (cystine or glutathione)	461	<u>L1</u>

END OF SEARCH HISTORY

First Hit Fwd Refs☐ Generate Collection Print

L5: Entry 18 of 22

File: USPT

Oct 15, 1991

DOCUMENT-IDENTIFIER: US 5057317 A
TITLE: Slow-release pharmaceutical agent

Detailed Description Paragraph Table (5):

Example 4 _____ Coated tablet
_____ Core tablet Picibanil .RTM. (freeze-dried,
powder: 5 KE) 14 (mg) Lactose 31.5 Hydroxypropyl cellulose of 50 low substitution
degree Hydroxypropyl cellulose 4 Calcium stearate 0.5 Subtotal 100 Outer layer
Adenine 100 (mg) L-Cystine 50 Dibasic calcium phosphate 45 Hydroxypropylmethyl
cellulose 4 Calcium stearate 1 Subtotal 200 Enteric coating layer Eudragit .RTM.
L30D 55 (dried) 30 (mg) Triacetin 3 Talc 7 Subtotal 40 Total 340

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 22 of 22 returned.

☐ 1. Document ID: US 6627732 B1

L5: Entry 1 of 22

File: USPT

Sep 30, 2003

US-PAT-NO: 6627732

DOCUMENT-IDENTIFIER: US 6627732 B1

TITLE: Glutathione derivatives and their dosage forms

DATE-ISSUED: September 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sakon; Kiyoyuki	Hino			JP
Naniwa; Yoshimitsu	Hino			JP
Kobayashi; Mitsuru	Hino			JP
Miura; Daishiro	Hino			JP
Imai; Hiroshi	Hino			JP
Imaizumi; Atsushi	Hino			JP

US-CL-CURRENT: 530/331; 562/557, 562/573

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 2. Document ID: US 6551795 B1

L5: Entry 2 of 22

File: USPT

Apr 22, 2003

US-PAT-NO: 6551795

DOCUMENT-IDENTIFIER: US 6551795 B1

TITLE: Nucleic acid and amino acid sequences relating to pseudomonas aeruginosa for diagnostics and therapeutics

DATE-ISSUED: April 22, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rubenfield; Marc J.	Framingham	MA		
Nolling; Jork	Quincy	MA		
Deloughery; Craig	Medford	MA		

US-CL-CURRENT: 435/69.1; 435/253.3, 435/320.1, 435/325, 435/6, 536/23.1, 536/23.7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachment	Claims	KMC	Draw D
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L5: Entry 3 of 22

File: USPT

May 7, 2002

US-PAT-NO: 6384208

DOCUMENT-IDENTIFIER: US 6384208 B1

TITLE: Sequence directed DNA binding molecules compositions and methods

DATE-ISSUED: May 7, 2002

INVENTOR- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Edwards; Cynthia A.	Menlo Park	CA		
Cantor; Charles R.	Boston	MA		
Andrews; Beth M.	Maynard	MA		
Turin; Lisa M.	Redwood City	CA		
Fry; Kirk E.	Palo Alto	CA		

US-CL-CURRENT: 536/24.1; 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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L5: Entry 4 of 22

File: USPT

Oct 24, 2000

US-PAT-NO: 6136554

DOCUMENT-IDENTIFIER: US 6136554 A

TITLE: Microbiological media for isolation and indentification of enteric pathogens
such as E. coli and salmonella

DATE-ISSUED: October 24, 2000

INVENTOR- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bochner; Barry	Alameda	CA		

US-CL-CURRENT: 435/34; 435/243, 435/244, 435/245, 435/253.6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Statements	Claims	KMC	Draw. D
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☐ 5. Document ID: US 6015829 A

L5: Entry 5 of 22

File: USPT

Jan 18, 2000

US-PAT-NO: 6015829

DOCUMENT-IDENTIFIER: US 6015829 A

TITLE: 1-phenylpyrazole compounds and medicinal application thereof

DATE-ISSUED: January 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ishibuchi; Seigo	Fukuoka			JP
Morimoto; Hiroshi	Fukuoka			JP
Fukunari; Atsushi	Fukuoka			JP
Inoue; Hiroyoshi	Fukuoka			JP
Naka; Yoichi	Fukuoka			JP

US-CL-CURRENT: 514/404; 514/406, 548/372.5, 548/374.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachment	Claims	KWC	Draw. De
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☐ 6. Document ID: US 6010849 A

L5: Entry 6 of 22

File: USPT

Jan 4, 2000

US-PAT-NO: 6010849

DOCUMENT-IDENTIFIER: US 6010849 A

TITLE: Sequence-directed DNA binding molecules compositions and methods

DATE-ISSUED: January 4, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Edwards; Cynthia A.	Menlo Park	CA		
Cantor; Charles R.	Boston	MA		
Andrews; Beth M.	Maynard	MA		
Turin; Lisa M.	Redwood City	CA		
Fry; Kirk E.	Palo Alto	CA		

US-CL-CURRENT: 435/6; 435/7.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachment	Claims	KWC	Draw. De
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☐ 7. Document ID: US 5891634 A

L5: Entry 7 of 22

File: USPT

Apr 6, 1999

US-PAT-NO: 5891634

DOCUMENT-IDENTIFIER: US 5891634 A

TITLE: Transfection of enteric parasites

DATE-ISSUED: April 6, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Petri, Jr.; William A.	Charlottesville	VA		
Vines; R. Randolph	Charlottesville	VA		
Purdy; Jay E.	Charlottesville	VA		
Mann; Barbara J.	Charlottesville	VA		

US-CL-CURRENT: 435/6; 435/243, 435/320.1, 435/69.1, 435/91.4, 530/300, 530/350,
536/23.1, 536/24.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 8. Document ID: US 5869241 A

L5: Entry 8 of 22

File: USPT

Feb 9, 1999

US-PAT-NO: 5869241

DOCUMENT-IDENTIFIER: US 5869241 A

TITLE: Method of determining DNA sequence preference of a DNA-binding molecule

DATE-ISSUED: February 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Edwards; Cynthia A.	Menlo Park	CA		
Cantor; Charles R.	Boston	MA		
Andrews; Beth M.	Maynard	MA		
Turin; Lisa M.	Redwood City	CA		
Fry; Kirk E.	Palo Alto	CA		

US-CL-CURRENT: 435/6; 435/91.1, 435/91.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 9. Document ID: US 5744131 A

L5: Entry 9 of 22

File: USPT

Apr 28, 1998

US-PAT-NO: 5744131

DOCUMENT-IDENTIFIER: US 5744131 A

TITLE: Sequence-directed DNA-binding molecules compositions and methods

DATE-ISSUED: April 28, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Edwards; Cynthia A.	Menlo Park	CA		
Fry; Kirk E.	Palo Alto	CA		
Cantor; Charles R.	Boston	MA		
Andrews; Beth M.	Maynard	MA		

US-CL-CURRENT: 424/78.08; 436/501, 514/1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachment	Claims	KWIC	Draw. De
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☐ 10. Document ID: US 5738990 A

L5: Entry 10 of 22

File: USPT

Apr 14, 1998

US-PAT-NO: 5738990

DOCUMENT-IDENTIFIER: US 5738990 A

**** See image for Certificate of Correction ****

TITLE: Sequence-directed DNA-binding molecules compositions and methods

DATE-ISSUED: April 14, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Edwards; Cynthia A.	Menlo Park	CA		
Fry; Kirk E.	Palo Alto	CA		
Cantor; Charles R.	Boston	MA		
Andrews; Beth M.	Maynard	MA		

US-CL-CURRENT: 435/6; 435/320.1, 435/69.1, 536/24.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachment	Claims	KWIC	Draw. De
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☐ 11. Document ID: US 5726014 A

L5: Entry 11 of 22

File: USPT

Mar 10, 1998

US-PAT-NO: 5726014

DOCUMENT-IDENTIFIER: US 5726014 A

TITLE: Screening assay for the detection of DNA-binding molecules

DATE-ISSUED: March 10, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Edwards; Cynthia A.	Menlo Park	CA		

Cantor; Charles R.	Boston	MA
Andrews; Beth M.	Watertown	MA
Turin; Lisa M.	Berkeley	CA

US-CL-CURRENT: 435/6; 435/91.2, 436/501

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D
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☐ 12. Document ID: US 5716780 A

L5: Entry 12 of 22

File: USPT

Feb 10, 1998

US-PAT-NO: 5716780

DOCUMENT-IDENTIFIER: US 5716780 A

TITLE: Method of constructing sequence-specific DNA-binding molecules

DATE-ISSUED: February 10, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Edwards; Cynthia A.	Menlo Park	CA		
Fry; Kirk E.	Palo Alto	CA		
Cantor; Charles R.	Boston	MA		
Andrews; Beth M.	Watertown	MA		

US-CL-CURRENT: 435/6; 436/501

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D
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☐ 13. Document ID: US 5693463 A

L5: Entry 13 of 22

File: USPT

Dec 2, 1997

US-PAT-NO: 5693463

DOCUMENT-IDENTIFIER: US 5693463 A

TITLE: Method of ordering sequence binding preferences of a DNA-binding molecule

DATE-ISSUED: December 2, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Edwards; Cynthia A.	Menlo Park	CA		
Fry; Kirk E.	Palo Alto	CA		
Cantor; Charles R.	Boston	MA		
Andrews; Beth M.	Maynard	MA		

US-CL-CURRENT: 435/6; 435/7.23, 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 14. Document ID: US 5665565 A

L5: Entry 14 of 22

File: USPT

Sep 9, 1997

US-PAT-NO: 5665565

DOCUMENT-IDENTIFIER: US 5665565 A

TITLE: Transfection of enteric parasites

DATE-ISSUED: September 9, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Petri, Jr.; William A.	Charlottesville	VA		
Vines; R. Randolph	Charlottesville	VA		
Purdy; Jay E.	Charlottesville	VA		
Mann; Barbara J.	Charlottesville	VA		

US-CL-CURRENT: 435/69.1; 435/252.3, 435/320.1, 435/477, 536/24.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 15. Document ID: US 5578444 A

L5: Entry 15 of 22

File: USPT

Nov 26, 1996

US-PAT-NO: 5578444

DOCUMENT-IDENTIFIER: US 5578444 A

TITLE: Sequence-directed DNA-binding molecules compositions and methods

DATE-ISSUED: November 26, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Edwards; Cynthia A.	Menlo Park	CA		
Cantor; Charles R.	Boston	MA		
Andrews; Beth M.	Maynard	MA		
Turin; Lisa M.	Redwood City	CA		
Fry; Kirk E.	Palo Alto	CA		

US-CL-CURRENT: 435/6; 435/7.23, 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 16. Document ID: US 5490992 A

L5: Entry 16 of 22

File: USPT

Feb 13, 1996

US-PAT-NO: 5490992

DOCUMENT-IDENTIFIER: US 5490992 A

TITLE: Disinfectant composition

DATE-ISSUED: February 13, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Andrews; Jeffrey F.	Stillwater	MN		
Munson; Janet F.	Plymouth	MN		

US-CL-CURRENT: 424/606; 424/78.08, 424/78.17, 424/78.31, 424/78.37, 426/321,
426/326, 426/331, 426/332, 426/335, 514/474 , 514/546, 514/547, 514/549, 514/552,
514/557, 514/566, 514/570, 514/571, 514/574, 514/711, 514/772, 514/772.1,
514/772.3, 514/785

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 17. Document ID: US 5460833 A

L5: Entry 17 of 22

File: USPT

Oct 24, 1995

US-PAT-NO: 5460833

DOCUMENT-IDENTIFIER: US 5460833 A

TITLE: Disinfectant composition

DATE-ISSUED: October 24, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Andrews; Jeffrey F.	Stillwater	MN		
Munson; Janet F.	Plymouth	MN		

US-CL-CURRENT: 424/606; 424/78.08, 424/78.17, 424/78.31, 424/78.37, 426/321,
426/326, 426/331, 426/332, 426/335, 514/474 , 514/546, 514/547, 514/549, 514/552,
514/557, 514/566, 514/570, 514/571, 514/574, 514/711, 514/772, 514/772.1,
514/772.3, 514/785

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 18. Document ID: US 5057317 A

L5: Entry 18 of 22

File: USPT

Oct 15, 1991

US-PAT-NO: 5057317

DOCUMENT-IDENTIFIER: US 5057317 A

TITLE: Slow-release pharmaceutical agent

DATE-ISSUED: October 15, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Iida; Yoshimitsu	Saitama			JP

US-CL-CURRENT: 424/423; 424/461, 424/470, 424/472, 424/474, 424/480, 424/490,
424/499

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 19. Document ID: US 4522625 A

L5: Entry 19 of 22

File: USPT

Jun 11, 1985

US-PAT-NO: 4522625

DOCUMENT-IDENTIFIER: US 4522625 A

TITLE: Drug dispenser comprising wall formed of semipermeable member and enteric member

DATE-ISSUED: June 11, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Edgren; David	El Granada	CA		

US-CL-CURRENT: 424/473

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 20. Document ID: US 4046138 A

L5: Entry 20 of 22

File: USPT

Sep 6, 1977

US-PAT-NO: 4046138

DOCUMENT-IDENTIFIER: US 4046138 A

TITLE: Diagnostic device for liquid samples

DATE-ISSUED: September 6, 1977

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Libman; Gary	Des Plaines	IL		
Binard; William J.	McHenry	IL		

Patel; Harish A. Oak Park IL

US-CL-CURRENT: 435/288.1; 4/144.1, 73/863.52, 73/864.91

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. D
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☐ 21. Document ID: CN 1146873 A

L5: Entry 21 of 22

File: DWPI

Apr 9, 1997

DERWENT-ACC-NO: 2001-103705

DERWENT-WEEK: 200241

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TITLE: Fish soup for activating blood circulation, strengthening heart and anticancer

INVENTOR: HUANG, Z

PRIORITY-DATA: 1996CN-0107695 (June 28, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CN 1146873 A	April 9, 1997		000	A23L001/39

INT-CL (IPC): A23 L 1/29; A23 L 1/325; A23 L 1/39

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. D
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☐ 22. Document ID: JP 50049413 A

L5: Entry 22 of 22

File: DWPI

May 2, 1975

DERWENT-ACC-NO: 1984-025692

DERWENT-WEEK: 198405

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TITLE: Agent for removing mercury from living body - contains methionine, cystine, vitamin=B1, vitamin=B6, and artificially digested egg yolk protein

PRIORITY-DATA: 1973JP-0100567 (September 5, 1973)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 50049413 A	May 2, 1975		001	

INT-CL (IPC): A61K 31/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. D
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Terms	Documents
enteric\$ same (cystine or glutathione)	22

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L5: Entry 18 of 22

File: USPT

Oct 15, 1991

US-PAT-NO: 5057317

DOCUMENT-IDENTIFIER: US 5057317 A

TITLE: Slow-release pharmaceutical agent

DATE-ISSUED: October 15, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Iida; Yoshimitsu	Saitama			JP

US-CL-CURRENT: 424/423; 424/461, 424/470, 424/472, 424/474, 424/480, 424/490,
424/499

CLAIMS:

What is claimed is:

1. A pharmaceutical agent in compressed which comprises at least one slow-release rendering additive of adenine, cystine and D-tyrosine in combination with at least one pharmaceutically active substance in solid particulate form, said slow-release rendering additive being in the form of particles intermixed with said at least one pharmaceutically active substance in solid particulate form.
2. A slow-release pharmaceutical agent according to claim 1 wherein the pharmaceutically active substance is a slightly soluble drug with a solubility of no more than 0.1%.
3. A slow-release pharmaceutical agent according to claim 2 wherein the slightly soluble drug is in the form of particles having an average size of no more than 10 .mu.m.
4. A slow-release pharmaceutical agent according to claim 3 which further contains hydroxypropyl cellulose of low substitution degree and hydroxypropyl cellulose.
5. A slow-release pharmaceutical agent according to claim 1 wherein said slow-release rendering additive is adenine or cystine.
6. A slow-release pharmaceutical agent according to claim 1 wherein said slow-release rendering additive is D-tyrosine.
7. A slow-release pharmaceutical agent in granulated form, which comprises at least one slow-release rendering additive of adenine, cystine and D-tyrosine in combination with at least one pharmaceutically active substance in solid particulate form, said slow-release rendering additive being in the form of particles intermixed with said at least one pharmaceutically active substance in solid particulate form.

8. A slow-release pharmaceutical agent according to claim 1 in the form of an implant.
9. A slow-release pharmaceutical agent according to claim 1 in an encapsulated dosage form.
10. A slow-release pharmaceutical agent according to claim 1 in the form of a troche.
11. A slow-release pharmaceutical agent according to claim 1 in the form of a compacted layer of a multi-layered tablet, wherein a layer is present containing no pharmaceutically active substance.
12. A slow-release pharmaceutical agent according to claim 1 in the form of a compacted tablet, said compacted tablet being coated with a layer containing no pharmaceutically active substance.
13. A slow-release pharmaceutical agent according to claim 7 wherein the granules of said granulated form are coated with a layer containing no pharmaceutically active substance.
14. A slow-release pharmaceutical agent according to claim 1 wherein said at least one pharmaceutically active substance is selected from the group consisting of hypotensives, antipyretic analgesic antiinflammatories, immunoregulators, adrenocortical hormones, antidiabetic agents, vasodilators, cardiotonics, antiarrhythmic agents, anti-arteriosclerotic agents and antidotes.
15. A slow-release pharmaceutical agent according to claim 14 wherein said at least one pharmaceutically active substance is present in an amount less than 75% by weight of the total weight of the composition, and said slow-release rendering additive is present in amount of more than 5% by weight of the total weight of the composition.
16. A slow-release pharmaceutical agent according to claim 7 wherein said slow-release rendering additive is D-tyrosine.
17. A slow-release pharmaceutical agent according to claim 7 wherein said slow-release rendering additive is adenine or cystine.
18. A slow-release pharmaceutical solid agent which comprises at least one slow-release rendering additive of adenine, cystine and D-tyrosine in combination with at least one pharmaceutically active substance in solid particulate form, said slow-release rendering additive being in the form of particles intermixed with said at least one pharmaceutically active substance in solid particulate form.

First Hit Fwd Refs

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L5: Entry 19 of 22

File: USPT

Jun 11, 1985

DOCUMENT-IDENTIFIER: US 4522625 A

TITLE: Drug dispenser comprising wall formed of semipermeable member and enteric member

Detailed Description Text (15):

The enteric materials that can be blended with the semipermeable polymer for forming the wall of the dispenser are non-toxic enteric materials. The materials and their degradation products should be physiologically inactive, the enteric materials should not dissolve or disintegrate in the stomach during the time the dispenser remains in the stomach, and the enteric materials should disintegrate once the dispenser enters the intestine. The enteric materials suitable for the present invention include those materials digestible by enzymes in the intestinal tract, enteric materials containing an ionizable polyacid, frequently a long-chain polymer with ionizable carboxyl groups, and the like. Typical enteric materials include keratin; keratin sandarac-tolu; salol; salol .beta.-naphthyl benzoate and acetotannin; salol with balsam of peru; salol with tolu; salol with gum mastic; salol and stearic acid; salol and shellac; formalized gelatin; formalized cross-linked gelatin and exchange resins; fatty acids; fats; waxes; fatty acid-wax mixtures; myristic acid-hydrogenated castor oil-cholesterol; stearic acid-mutton tallow; stearic acid-balsam of tolu; stearic acid-castor oil; shellac; ammoniated shellac; ammoniated shellac-salol; shellac-wool fat; shellac-cetyl alcohol; shellac-stearic acid-balsam of tolu; shellac-n-butyl stearate; abietic acid; methyl abietate; benzoin; balsam of tolu; sandarac; mastic with tolu; mastic with cetyl alcohol; cellulose acetate phthalate; cellulose acetate phalate with resinous carrier; cellulose acetate and shellac; starch acetate phthalate; polyvinyl acid phthalate; methylcellulose acid phthalate; hydroxypropyl methylcellulose phthalate; 2-ethoxy-5-(2-hydroxyethoxy-methyl)cellulose phthalic acid; acid phthalates of carbohydrates; zein; alkyl resin-unsaturated fatty acids-shellac; hippuric acid; ternary copolymers of styrene; copolymers of methacrylic acid and methylmethacrylate such as methacrylic acid-methylmethacrylate 50:50, and copolymer methacrylic acid-methylmethacrylate 30:70; copolymer hydrolyzed styrene-maleic anhydride; poly(methyl vinyl ether/maleic anhydride); carboxylated copolymer of vinyl acetate; colophony; mixtures of zein and carboxymethylcellulose; methyl cellulose acid phthalate; styrene-maleic acid monoester copolymer; styrene-maleic acid-maleic acid monoester terpolymers; partial esters of isopropyl poly(vinyl methyl ether/maleic anhydride); half esters of poly(ethylene/maleic anhydride); half esters of poly(vinyl methyl ether/maleic anhydride); precipitation, association, and polyelectrolyte polymers such as polyacrylic acid blended with polyvinyl pyrrolidone; polyacrylic acid with polyethylene oxide; methylvinyl ether maleic anhydride with polyvinyl pyrrolidone; calcium chloride with poly (acrylamide); aluminum sulfate with poly(acrylamide); amino acids of isoelectric point below pH7 comprising: alanine; aspartic acid; cystine; glutamic acid; glycine; isoleucine; leucine, methionine; phenylalanine; proline; sarconine; serine; threonine; tryptophene; tyrosine; valine; and the like. The amount of enteric material blended with the semipermeable polymer is about 0.5 wt% to 40 wt%. Typical enteric materials are discussed in Remington's Pharmaceutical Sciences, Thirteenth Ed., pages 604 to 605, 1965, published by Mack Publishing Co., Eaton, Penna., and in Biopharmaceutics and Relevant Pharmacokinetics, First Ed., page 158 to 165, 1971, published by Drug Intelligence Publications, Hamilton, Ill.

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L1: Entry 13 of 21

File: USPT

Nov 15, 1994

DOCUMENT-IDENTIFIER: US 5364634 A

TITLE: Controlled-release PH sensitive capsule and adhesive system and method

Detailed Description Text (9):

Examples of bioadhesives that can be associated with a capsule or as a coating or in a gel adhesive system are calcium polycarbophil, polyacrylic acid, gelatin, carboxymethyl cellulose, natural gums such as karaya and tragacanth, algin, chitosan, hydroxypropylmethyl cellulose, starches, pectins or mixtures thereof. The adhesives can be coated on the capsule shell or made part of the capsule shell provided there is compatibility with the shell composition to maintain integrity.

CLAIMS:

5. A capsule for adhesion in the oral cavity of claim 1 wherein said adhesive system is selected from the group of calcium polycarbophil, polyacrylic acid, gelatin, carboxymethyl cellulose, natural gums, algin, chitosan, hydroxypropylmethyl cellulose, starches, pectins or mixtures thereof which are applied to the outside of the shell of the capsules.

15. A method of claim 9 wherein said adhesive system is selected from the group of calcium polycarbophil, polyacrylic acid, gelatin, carboxymethyl cellulose, natural gums, algin, chitosan, hydroxypropylmethyl cellulose, starches, pectins and mixtures thereof which are applied to the outside of the shell of the capsules.

22. A delivery system of claim 16 wherein said adhesive is selected from the group of calcium polycarbophil, polyacrylic acid, gelatin, carboxymethyl cellulose, natural gums, algin, chitosan, hydroxypropylmethyl cellulose, starches, pectins and mixtures thereof.

[First Hit](#) [Fwd Refs](#)☐ [Generate Collection](#) [Print](#)

L3: Entry 2 of 3

File: USPT

Jun 20, 2000

DOCUMENT-IDENTIFIER: US 6077822 A

TITLE: Drug salts

Detailed Description Text (57):

One solution has been the use of film coated tablets. A coated doxycyclin hyclate formulation was developed which showed less tendency to disintegrate in the oesophagus (see Delphre et al. in Digestive Disease and Sciences 34:197-800(1989)). An enteric coated pellet formulation of doxycyclin (sold under the names Doryx.RTM. and Doxylets.RTM.) has been developed to prevent the total dose of doxycyclin hyclate dissolving in a small area of the stomach. Such formulations have been shown to have a reduced (approximately 50% reduction) rate of nausea and vomiting and an unchanged bioavailability. A pellet formulation however does not automatically have an unchanged bioavailability. In a doxycyclin pellet formulation developed at the university of Nanking, China, it was found that 200 mg of the pellet formulation were bioequivalent to 100 mg of the standard doxycyclin hyclate formulation (see Qiu et al. in Acta Pharm. Sinica 21:370-376(1986)). Therefore a need still exists for tetracyclin and particularly doxycyclin formulations with controlled release properties.

Detailed Description Text (119):

Alternatively, a test run with the test sample is performed and the results are compared with the results of testing known bioadhesive substances such as, e.g. polycarbophil (a strong bioadhesive substance), or chitosan, tragacanth, hydroxypropylmethylcellulose (HPMC), hydroxypropylcellulose (HPC), karaya gum, carboxymethylcellulose (CMC), gelatin, pectin, acacia, PEG 6000, povidone, or DEAE-dextran (less bioadhesive than polycarbophil).

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
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Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 6419954 B1

L3: Entry 1 of 3

File: USPT

Jul 16, 2002

US-PAT-NO: 6419954

DOCUMENT-IDENTIFIER: US 6419954 B1

TITLE: Tablets and methods for modified release of hydrophilic and other active agents

DATE-ISSUED: July 16, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chu; James S.	Palo Alto	CA		
Yang; Yisong	Sunnyvale	CA		
Fix; Joseph A.	Half Moon Bay	CA		

US-CL-CURRENT: 424/465; 424/441, 424/457, 424/461, 424/476, 424/490

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachment	Claims	KWC	Draw D
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☐ 2. Document ID: US 6077822 A

L3: Entry 2 of 3

File: USPT

Jun 20, 2000

US-PAT-NO: 6077822

DOCUMENT-IDENTIFIER: US 6077822 A

TITLE: Drug salts

DATE-ISSUED: June 20, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dyrsting; Hjarne	Virum			DK
Koch; Torben	Copenhagen			DK

US-CL-CURRENT: 514/8; 514/23, 514/53, 530/322, 536/13.8, 536/7.1, 536/7.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachment	Claims	KWC	Draw D
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☐ 3. Document ID: US 5364636 A

L3: Entry 3 of 3

File: USPT

Nov 15, 1994

US-PAT-NO: 5364636

DOCUMENT-IDENTIFIER: US 5364636 A

**** See image for Certificate of Correction ****

TITLE: Inhibitor of absorption of digestion product of food and drink

DATE-ISSUED: November 15, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ochi; Shigeo	Tokyo			JP

US-CL-CURRENT: 424/456; 424/451, 424/491, 424/492, 424/493, 424/494, 424/495,
514/866, 514/892, 514/909, 514/911

Full	Title	Citation	Front	Review	Classification	Date	Reference	Figures	Abstracts	Claims	KMC	Draw D
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L4: Entry 5 of 16

File: USPT

Jul 16, 2002

US-PAT-NO: 6419954

DOCUMENT-IDENTIFIER: US 6419954 B1

TITLE: Tablets and methods for modified release of hydrophilic and other active agents

DATE-ISSUED: July 16, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chu; James S.	Palo Alto	CA		
Yang; Yisong	Sunnyvale	CA		
Fix; Joseph A.	Half Moon Bay	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
Yamanouchi Pharmaceutical Co., Ltd.				JP		03

APPL-NO: 09/ 599102 [\[PALM\]](#)

DATE FILED: May 19, 2000

INT-CL: [07] [A61 K 9/20](#), [A61 K 9/22](#), [A61 K 9/36](#)US-CL-ISSUED: [424/465](#); [424/457](#), [424/490](#), [424/476](#), [424/441](#), [424/461](#)US-CL-CURRENT: [424/465](#); [424/441](#), [424/457](#), [424/461](#), [424/476](#), [424/490](#)FIELD-OF-SEARCH: [424/465](#), [424/490](#), [424/457](#), [424/441](#), [424/476](#), [424/469](#), [424/461](#)

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	4404183	September 1983	Kawata et al.	424/19
<input type="checkbox"/>	4764378	August 1988	Keith et al.	424/435
<input type="checkbox"/>	4806337	February 1989	Snipes et al.	71/65
<input type="checkbox"/>	5273758	December 1993	Royce	424/465
<input type="checkbox"/>	5322655	June 1994	Ebey	264/40.5
<input type="checkbox"/>	5370879	December 1994	Masterson et al.	424/490

<input type="checkbox"/>	<u>5766623</u>	June 1998	Ayres et al.	424/441
<input type="checkbox"/>	<u>5846563</u>	December 1998	Baichwal	424/457
<input type="checkbox"/>	<u>5908638</u>	June 1999	Huber et al.	424/465
<input type="checkbox"/>	<u>5945125</u>	August 1999	Kim	424/473
<input type="checkbox"/>	<u>6024982</u>	February 2000	Oshlack et al.	424/476

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0661045	May 1995	EP	
WO 94/06414	March 1994	WO	
WO 98/56359	December 1998	WO	

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ART-UNIT: 1616

PRIMARY-EXAMINER: Dees; Jose' G.

ASSISTANT-EXAMINER: Haghighatian; Mina

ATTY-AGENT-FIRM: Townsend and Townsend and Crew LLP

ABSTRACT:

The invention provides a tablet and methods for making the tablet comprising a gel-forming material and at least one particle comprising an active agent in contact with a coating material to modify release of the active agent.

53 Claims, 15 Drawing figures

Hit List

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☐ 1. Document ID: US 6716970 B2

L4: Entry 1 of 16

File: USPT

Apr 6, 2004

US-PAT-NO: 6716970

DOCUMENT-IDENTIFIER: US 6716970 B2

TITLE: Water soluble, randomly substituted partial N-partial O-acetylated chitosan, preserving compositions containing chitosan, and processes for making thereof

DATE-ISSUED: April 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hung; William M.	Alpharetta	GA		
Bergbauer; Katrina L.	Decatur	GA		
Su; Kai C.	Alpharetta	GA		
Wang; Guigui	Cumming	GA		

US-CL-CURRENT: 536/20; 536/124

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw D
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☐ 2. Document ID: US 6656508 B2

L4: Entry 2 of 16

File: USPT

Dec 2, 2003

US-PAT-NO: 6656508

DOCUMENT-IDENTIFIER: US 6656508 B2

TITLE: Sustained-release alginate gels

DATE-ISSUED: December 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Goldenberg; Merrill Seymour	Thousand Oaks	CA		
Beekman; Alice C.	Thousand Oaks	CA		

US-CL-CURRENT: 424/499; 424/484, 424/485, 424/486, 424/488, 424/489, 424/500, 424/501, 514/779, 514/944

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 3. Document ID: US 6645528 B1

L4: Entry 3 of 16

File: USPT

Nov 11, 2003

US-PAT-NO: 6645528

DOCUMENT-IDENTIFIER: US 6645528 B1

**** See image for Certificate of Correction ****

TITLE: Porous drug matrices and methods of manufacture thereof

DATE-ISSUED: November 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Straub; Julie	Winchester	MA		
Bernstein; Howard	Cambridge	MA		
Chickering, III; Donald E.	Framingham	MA		
Khattak; Sarwat	Cambridge	MA		
Randall; Greg	Stoneham	MA		

US-CL-CURRENT: 424/489; 514/951

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 4. Document ID: US 6509284 B1

L4: Entry 4 of 16

File: USPT

Jan 21, 2003

US-PAT-NO: 6509284

DOCUMENT-IDENTIFIER: US 6509284 B1

TITLE: Layer materials treated with surfacant-modified chelating agents

DATE-ISSUED: January 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Quincy, III; Roger Bradshaw	Cumming	GA		
Woltman; Garry Roland	Greenville	WI		
Liu; Yuelong	Alpharetta	GA		
Hwang; Patricia Hsiaoyin	Alpharetta	GA		

US-CL-CURRENT: 442/118; 442/119; 442/121; 442/170; 442/171

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 5. Document ID: US 6419954 B1

L4: Entry 5 of 16

File: USPT

Jul 16, 2002

US-PAT-NO: 6419954

DOCUMENT-IDENTIFIER: US 6419954 B1

TITLE: Tablets and methods for modified release of hydrophilic and other active agents

DATE-ISSUED: July 16, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chu; James S.	Palo Alto	CA		
Yang; Yisong	Sunnyvale	CA		
Fix; Joseph A.	Half Moon Bay	CA		

US-CL-CURRENT: 424/465; 424/441, 424/457, 424/461, 424/476, 424/490

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw. D
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☐ 6. Document ID: US 6395300 B1

L4: Entry 6 of 16

File: USPT

May 28, 2002

US-PAT-NO: 6395300

DOCUMENT-IDENTIFIER: US 6395300 B1

TITLE: Porous drug matrices and methods of manufacture thereof

DATE-ISSUED: May 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Straub; Julie	Winchester	MA		
Bernstein; Howard	Cambridge	MA		
Chickering, III; Donald E.	Framingham	MA		
Khattak; Sarwat	Cambridge	MA		
Randall; Greg	Stoneham	MA		

US-CL-CURRENT: 424/489; 264/5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw. D
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☐ 7. Document ID: US 6310089 B1

L4: Entry 7 of 16

File: USPT

Oct 30, 2001

US-PAT-NO: 6310089
DOCUMENT-IDENTIFIER: US 6310089 B1

TITLE: Composition for the administration of a D1-agonists

DATE-ISSUED: October 30, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Watts; Peter James	Nottingham			GB
Illum; Lisbeth	Nottingham			GB

US-CL-CURRENT: 514/444; 514/443

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 8. Document ID: US 6255502 B1

L4: Entry 8 of 16

File: USPT

Jul 3, 2001

US-PAT-NO: 6255502
DOCUMENT-IDENTIFIER: US 6255502 B1

TITLE: Pharmaceutical composition containing acid addition salt of basic drug

DATE-ISSUED: July 3, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Penkler; Lawrence John	Port Elizabeth			ZA
De Kock; Lueta-Ann	Johannesburg			ZA
Whittaker; Darryl Vanstone	Port Elizabeth			ZA

US-CL-CURRENT: 552/549; 424/550, 424/551, 424/553, 530/847, 552/550, 554/156

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 9. Document ID: US 6077822 A

L4: Entry 9 of 16

File: USPT

Jun 20, 2000

US-PAT-NO: 6077822
DOCUMENT-IDENTIFIER: US 6077822 A

TITLE: Drug salts

DATE-ISSUED: June 20, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Dyrsting; Hjarne Virum DK
Koch; Torben Copenhagen DK

US-CL-CURRENT: 514/8; 514/23, 514/53, 530/322, 536/13.8, 536/7.1, 536/7.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 10. Document ID: US 5691060 A

L4: Entry 10 of 16

File: USPT

Nov 25, 1997

US-PAT-NO: 5691060

DOCUMENT-IDENTIFIER: US 5691060 A

**** See image for Certificate of Correction ****

TITLE: Utilization of a transacylation reaction between an esterified polysaccharide and a polyaminated or polyhydroxylated substance for fabricating microparticles, microparticles thus obtained, methods and compositions containing them

DATE-ISSUED: November 25, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Levy; Marie-Christine	Reims			FR

US-CL-CURRENT: 428/402.21; 264/4.32, 264/4.33, 264/4.4, 424/408, 424/451, 424/455, 424/457, 424/468, 424/491, 424/493, 424/497, 424/499, 528/272

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 11. Document ID: US 5516530 A

L4: Entry 11 of 16

File: USPT

May 14, 1996

US-PAT-NO: 5516530

DOCUMENT-IDENTIFIER: US 5516530 A

TITLE: Porous shaped delivery devices and method of producing thereof

DATE-ISSUED: May 14, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lo; Julian B.	Old Lyme	CT		
Mackay; Gary G.	Ledyard	CT		
Puz; Michael J.	Pawcatuck	CT		

US-CL-CURRENT: 424/473; 424/487

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 12. Document ID: US 5364636 A

L4: Entry 12 of 16

File: USPT

Nov 15, 1994

US-PAT-NO: 5364636

DOCUMENT-IDENTIFIER: US 5364636 A

**** See image for Certificate of Correction ****

TITLE: Inhibitor of absorption of digestion product of food and drink

DATE-ISSUED: November 15, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ochi; Shigeo	Tokyo			JP

US-CL-CURRENT: 424/456; 424/451, 424/491, 424/492, 424/493, 424/494, 424/495,
514/866, 514/892, 514/909, 514/911

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 13. Document ID: US 5346501 A

L4: Entry 13 of 16

File: USPT

Sep 13, 1994

US-PAT-NO: 5346501

DOCUMENT-IDENTIFIER: US 5346501 A

TITLE: Laparoscopic absorbable anastomotic fastener and means for applying

DATE-ISSUED: September 13, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Regula; Donald W.	Belle Meade	NJ		
Bregen; Michael F.	Lebanon	NJ		
Szabo; Zoltan	San Francisco	CA		
Gardiner; Barry N.	Orinda	CA		

US-CL-CURRENT: 606/151; 606/153, 606/154, 606/215

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 14. Document ID: US 5217720 A

L4: Entry 14 of 16

File: USPT

Jun 8, 1993

US-PAT-NO: 5217720

DOCUMENT-IDENTIFIER: US 5217720 A

TITLE: Coated solid medicament form having releasability in large intestine

DATE-ISSUED: June 8, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sekigawa; Fujio	Saitama			JP
Onda; Yoshiro	Tokyo			JP

US-CL-CURRENT: 424/480; 424/458, 424/461, 424/479, 424/482, 424/493, 424/494,
514/960

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. D
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☐ 15. Document ID: JP 03034927 A

L4: Entry 15 of 16

File: JPAB

Feb 14, 1991

PUB-NO: JP403034927A

DOCUMENT-IDENTIFIER: JP 03034927 A

TITLE: ORAL ADMINISTRATION COMPOSITION FOR TREATING ULCERATIVE COLITIS AND CROHN'S DISEASE

PUBN-DATE: February 14, 1991

INVENTOR-INFORMATION:

NAME	COUNTRY
YAMADA, AKIYA	
WATOU, TAKAHIKO	
HISAICHI, SHINICHI	
HIBI, TORU	

INT-CL (IPC): A61K 31/60; A61K 9/16; A61K 9/62; A61K 31/44; A61K 47/36

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. D
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☐ 16. Document ID: EP 466566 A, CA 2046739 C, CA 2046739 A, JP 04069333 A, CN 1058904 A, AU 633220 B, US 5217720 A, EP 466566 A3, EP 466566 B1, DE 69109557 E, JP 2773959 B2, KR 9606063 B1

L4: Entry 16 of 16

File: DWPI

Jan 15, 1992

DERWENT-ACC-NO: 1992-018156

DERWENT-WEEK: 200030

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TITLE: Coating compsn. for release of active agent only in large intestine - use in diseases of large intestine or for oral admin. of e.g. insulin to avoid

decomposition by digestive enzymes

INVENTOR: ONDA, U; SEKIGAWA, F ; ONDA, Y

PRIORITY-DATA: 1990JP-0182157 (July 10, 1990)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>EP 466566 A</u>	January 15, 1992		000	
<u>CA 2046739 C</u>	February 29, 2000	E	000	A61K009/24
<u>CA 2046739 A</u>	January 11, 1992		000	
<u>JP 04069333 A</u>	March 4, 1992		006	
<u>CN 1058904 A</u>	February 26, 1992		000	A61K009/36
<u>AU 633220 B</u>	January 21, 1993		000	A61K009/36
<u>US 5217720 A</u>	June 8, 1993		006	A61K009/36
<u>EP 466566 A3</u>	December 9, 1992		000	
<u>EP 466566 B1</u>	May 10, 1995	E	009	A61K009/54
<u>DE 69109557 E</u>	June 14, 1995		000	A61K009/54
<u>JP 2773959 B2</u>	July 9, 1998		005	A61K009/36
<u>KR 9606063 B1</u>	May 8, 1996		000	A61K009/36

INT-CL (IPC): A61K 9/00; A61K 9/24; A61K 9/30; A61K 9/32; A61K 9/34; A61K 9/36;
A61K 9/54; A61K 9/60; A61K 47/36; A61K 47/38

Full	Title	Citation	Front	Review	Classification	Date	Reference	References	Attachments	Claims	KWC	Drawings
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Terms	Documents
(chitosan adj10 hydroxypropyl\$) and (colon\$ or enteric\$)	16

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